110

110

)*

Large Fab

Large Fab

Memo

Large Fab 1-Bevel end for welding FWD ONLY

2-Weld Support using Jig DT8719, weld Fwd End Plate as per QSI 004 & Dwg D3272

0.00

0.00

A/R Aluminum Rod 119785

3-Grind End Plate flush

10 B

12.05.15

Page 1

Insp.

Stamp

Ae & 05.22

Dart Aerospa	ce Ltd	
W/O:		

TEP PROCEDURE C					
	HANGE By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:	_ PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B		Verification	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector					
								·					

Work Order ID 83774 Page 2 April-25-12 10:12:58 AM Item ID: D350-591-312 Accept *N900040100* Setup Start **Revision ID:** Heli-Access-Step, Long RH Item Name: *10* **Start Date:** 25/04/2012 **Start Qty: 10.00 Cust Item ID: Required Date: 25/06/2012** Req'd Qty: 10.00 *10* **Customer:** Reference: Run Process Plan: Approvals: Date: Tooling: Date: QC: ____ SPC (Y/N): Date: Date: Sequence ID/ Operation Tool ID Reject Set Up/ Tool # Plan Accept Reject Insp. **Work Center ID** Description Qty Qty **Run Hours** Code Number Stamp 120 QC9- Inspect visual per QSI004- Fusion Welds 0.00 Ø BF 12-05-23 *120* QC 0.00 Memo Quality Control QC5- Inspect part completeness to step on W/O 130 *130* QC Memo Quality Control 140 Chemical Conversion Coat per QSI005 4.1 0.00 *140*

0.00

Memo

HandFinish

Hand Finishing

		<u> </u>							•
W/O:			W	ORK ORDER CHANG	ES				٠
DATE	STEP	PROC	EDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	·	PAR #:	_ Fault Cat	egory:	_ NCR: Yes	No DQA	·	Date: _	
	R	esolution:	_ Dispositi	on:	_ QA: N/C Cld	osed:		Date: _	
NCR:		W	ORK ORE	DER NON-CONFORM <i>A</i>	NCE (NCR)			
		Description of NC		Corrective Action Secti	on B	Verifica	etion	Approval Chief Eng	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C			QC Inspector
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0.00

0.00

180

180

Large Fab Large Fab

Large Fab

Memo

1-Assemble Leg Assembly as per Dwg D3272.

2-Leave one rivet out until welding is complete.

3-Bevel Aft end for welding

4-Inspect for foreign object as per QSI 024

5-Weld Aft End Plate as per QSI 004 & Dwg D3272

A/RAluminum Rod M119785

6-Grind End Plate flush

7-Install last rivet as per Dwg.

Page 3

Insp.

W/O:			W	ORK ORDER CHANG	GES					•
DATE	STEP	PRO	OCEDURE CHA	ANGE	В	У	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	egory:	NCR: `	Yes N	o DQA	\:	Date:	
		esolution:								
NCR:			WORK ORD	ER NON-CONFORM	ANCE (VCR)				
DATE	STEP	P Description of NC			ction B	: O	Verifica		Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	Sectio	n C	Chief Eng	QC Inspector
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	Vork Order ID 83774 oril-25-12 10:12:58 AM			*837	774	L *			Page 4			
Item ID: Revision ID: Item Name:	D350-591-31 Heli-Access-S		Terrorian Company (New York)	Accept	*/	1900	040	100)* ·	Setup Star Stop	1.0	S1* S2*
Start Date: Required Date: Reference:	25/04/2012 : 25/06/2012	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*			Cust Item Customer:	ID:					
Approvals:	Process Pla QC:	n:	Date:	Tooling: SPC (Y/N):			ate:		I	Run Star Stop	171	R1* R2*
Sequence ID/ Work Center II 190 *100* QC Quality Control	D	Operation Description QC10- Inspect visual per	QSI004- ground welds	Set Up/ Run Hours 0.00 7/0.00	H30	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
00 *200* QC Quality Control		QC5- Inspect part comple Memo	teness to step on W/O	0.00	10/30				<u>к</u> Ю Р н	··		
* 210 * 210* HandFinish Hand Finishing		Chemical Conversion Coa	nt per QSI005 4.1	0.00				l	10X 2H	J.		M), 12/ò

W/O:			WC	ORK ORDER CHANGE	ES			. •
DATE	STEP	PR	OCEDURE CHA		Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA:	Date: _	
	R	esolution:	Disposition	n:	QA: N/C Ci	osed:	Date: _	
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NCR)		
DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval
	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
4.	<u>.</u>					_i ea		
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Work Order ID 83774 Page 5 April-25-12 10:12:58 AM D350-591-312 Item ID: Accept *N900040100* Setup Start **Revision ID:** Heli-Access-Step, Long RH Item Name: *10* **Start Date:** 25/04/2012 Start Qty: 10.00 **Cust Item ID: Required Date: 25/06/2012** Req'd Qty: 10.00 *10* **Customer:** Reference: Run Approvals: **Process Plan:** Date: Tooling: Date: SPC (Y/N): QC: Date: Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept insp. Work Center ID Description Qty Qty Code Number Stamp **Run Hours** 220. White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 0.00 *220* Powdercoat START TIME: Powder Coating Wing Walk as per dwg QSI005 4.4 Batch M 121 500.00 230 10RH d Malorio *230* HandFinish 0.00 Memo Hand Finishing 240 QC3- Inspect Part Finish 0.00 10 \$ BR 10-6-1 0.00 Memo

Quality Control

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W/O:			W	ORK ORDER CHAN	IGES					•
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		esolution:								
NCR:			WORK ORD	ER NON-CONFORM	MANCE ((NCR)				
DATE	STEP	Description of NC	1		ection B	Sign &	Verific		Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	n e	Date	Section	on C	Chief Eng	QC Inspector
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Lev B

Identify and pack for shipping as per PPPD350-591-312

Location:

0.00

Packaging

Packaging

Duit Ac	ospace	Ltu							•
W/O:			WC	RK ORDER CHANG	ES				•
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No	:	PAR #:	Fault Categ	gory:	_ NCR: Yes	No DQ	A:	_ Date: _	
	Re	solution:	Disposition	1:	_ QA: N/C CI	osed:		Date: _	
NCR:		WORK ORDER NON-CONFORM		NCE (NCF	1)				
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DATE		STEP Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector

Work Order ID 83774 April-25-12 10:12:58 AM Item ID: D350-591-312 Accept *N900040100* Setup Start **Revision ID:** Item Name: Heli-Access-Step, Long RH *10* **Start Oty: 10.00 Start Date:** 25/04/2012 **Cust Item ID: Required Date:** 25/06/2012 **Req'd Qty:** 10.00 *10* **Customer:** Reference: Run Process Plan: **Tooling:** Approvals: Date: Date: Stop QC: SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ Tool # Plan Reject Tool ID Accept Reject **Work Center ID** Description **Run Hours** Code Qty Qty Number, Stamp

280

280

Memo

QC21- Final Inspection - Work Order Release

0.00

0.00

Quality Control

12/4/0 TO 12/07

Insp.

Page 7

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W/O:			V	VORK ORDER CHANGI	ES					
DATE	STEP	PRO	OCEDURE CH	IANGE	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Ca	tegory:	NCR: \	es N	o DQ	4 :	Date:	
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DATE	STEP	Description of NC		Corrective Action Section			Verific		Approval	Approval
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April-25-12 10:13:01 AM

Work Order ID: 83774

D350-591-312

Parent Item Name: Heli-Access-Step, Long RH

Parent Item:

83774

D350-591-312

Start Date: 25/04/2012

Required Date: 25/06/2012

Start Qty: 10.00

Required Qty: 10.00

Comments:

IPP Rev:A04.03.22New issue KJ/RF

IPP Rev:B 07-06-09 Added D3572-1 JLM

IPP Rev:C 08-04-02 ECN1163 DD verified by:EC

IPP Rev:D 08-04-08 ECN1164 DD verified by:eC

Manufactured

No

fixe route seq in bom DD 10.04.28 verified by:EC

IPP Rev:D

	1			- 3									
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
*D3272-1 *D3272-1*		Manufactured	No			110	Each	20.0000	1 **	10 Ae	12 0	5.05	
Sich				Location		Loc (<u>Oty</u>	Loc Code					

Location	<u>on</u>	<u>Lo</u>	c Qty	Loc Code			
ST	2-70		-10			(0)	_
WA	B83778		30				_
	81312		10				_
	81313		10				_
		110	Each	187.0000	1	10	1
				4	-		119

D3067-1 **End Plate**

D3067-1

Location Loc Qty Loc Code WA123 78608 4 80881 45 81969 74 WA016 64 67582 68214 79607 83053 60

M12.05.15

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W/O:			WO	RK ORDER CHANG	ES			·	
DATE	STEP	PRO	OCEDURE CHAI	RE CHANGE By			Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #: Fault Category:			NCR: Yes	NCR: Yes No DQA: Date:			
	Resolution: Disposition:			_ QA: N/C C	losed:		Date: _		
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description	on B Sign	& Verific		Approval Chief Eng	Approval QC Inspector
		Section A	Chief Eng	Chief Eng	Date	,		Office Ling	QO MSPOSIO
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April-25-12 10:13:02 AM

Work Order ID: 83774 Parent Item:

D350-591-312

Parent Item Name: Heli-Access-Step, Long RH

D350-591-312

Start Date: 25/04/2012

Required Date: 25/06/2012

Start Qty: 10.00

Required Qty: 10.00

D3219-I

Manufactured No 110

Each

323.0000

Location	Lo	e Qty	Loc Code		
WA		84			
82221		84			
WA016		118			
73410		12			
77674		6			
81292		80			
82059		20			
WA017		121			
81971		121			<u> 20</u>
	180	Each	101.0000	2	20

D3066-1

Manufactured

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B83854

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•	Spa	ice	r							

MS20600-AD4W4

Purchased

No

Location Loc Qty WA 101 81968 101 180 Each

3,044.000

Loc Code

160

Location	Loc Qty	Loc Code	
ST321	3044		
121011	9		
121340	1035		
121444	2000		

April-25-12 10:13:02 AM

Shop Packet Print

Page 2

Dart Aerospace L	_td
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	— <u>-</u>					,			
W/O:			W	ORK ORDER CHANGE	ES				
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	Re	esolution:	: Disposition: QA: N/C Clos			sed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC	Description of NC Corrective Action			Verifica	ition	Approval	Approval
	,	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Chief Eng	QC Inspector
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April-25-12 10:13:02 AM

Work Order ID: 83774

83774 *D350-591-312* D350-591-312

Parent Item Name: Heli-Access-Step, Long RH

Start Date: 25/04/2012

Required Date: 25/06/2012

Start Qty: 10.00

Required Qty: 10.00

D3065-041

D3067-1

AN3-35A

Parent Item:

No Manufactured

180

Each

19.0000

**

10

B80880

Step Leg Assembly Hi

Purchased

No

Manufactured No Location Loc Qty WA 19 66149 0 78798 18 79336 1 180 Each

187.0000 **

Loc Code

Loc Code

10

End Plate

Location Loc Qty WA 123 78608 4 80881 45 81969 74 WA016 64 67582 68214 79607 83053 60 250 Each

127.0000

**

Location Loc Qty Loc Code ST353 127 120644 50 120717 50 121068 27

April-25-1	2	10:1	3:02	AN

W/O:		WORK ORDER CHANGES							
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DATE	STEP	Description of NC			tion B	Verification	Approval	Approval	
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April-25-12 10:13:02 AM

Work Order ID: 83774

83774

Location

Location

ST351

ST

Parent Item:

D350-591-312

D350-591-312

Parent Item Name: Heli-Access-Step, Long RH

Start Date: 25/04/2012

Required Date: 25/06/2012

Start Qty: 10.00

Required Oty: 10.00

D3235-1

Manufactured

250 Each

Loc Qty

Each

39.0000

9181970

Manufactured

39 78787 39

250

Loc Code

11X 83311 5

68.0000

Location Loc Qty Loc Code ST471 78795 3 ST481 65

82015 40 83361

25 250 Each

Loc Qty

10

3×82015

AN960JD416

1149D0463J Purchased

No

Loc Code

10.0000

16 160 ~ 16 x 121055 JB'S ~ 144 x 121912 S

NAS1149D0563J Purchased

No

116289

250

10 0.0000 Each

119546 JB 12/09/01

April-25-12 10:13:02 AM

Shop Packet Print

Page 4

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W/O:			WC	RK ORDER CHANG	BES					
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DATE	STEP	Description of NC			tion B	Verification	Approval	Approval		
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April-25-12 10:13:02 AM

Work Order ID: 83774

Parent Item:

D350-591-312

Parent Item Name: Heli-Access-Step, Long RH

83774

D350-591-312

Start Date: 25/04/2012

Required Date: 25/06/2012

Start Qty: 10.00

Required Qty: 10.00

12/18/ 5

AN5-36A

No

Manufactured No

Manufactured

Purchased

Location Loc Qty 340 100 121181 100 ST340 56 120187 6 120731 50 250 Each

250

190.0000

Loc Code

87.0000

Loc Code

156.0000

Loc Code

D2618

D2230-3

No

80474

76130

Location

ST012

Loc Qty 190 2 188 250

Each

Each

Location Loc Qty ST480 87 53881 4 70973 81558 82

	•										
W/O:			W	ORK ORDER CHANG	ES				•		
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	•	PAR #:	Fault Cat	egory:	_ NCR: Yes	ICR: Yes No DQA: Date:					
	R	esolution:	olution: Disposition: QA:			Closed:		Date: _			
NCR:		\	WORK ORI	DER NON-CONFORMA	NCE (NC	R)					
DATE	STEP	Description of NC	Corrective Action Section		Verifi	cation	Approval	Approval			
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April-25-12 10:13:02 AM

Work Order ID: 83774

Parent Item:

D350-591-312

Parent Item Name: Heli-Access-Step, Long RH

83774

Location

ST403

D350-591-312

Start Date: 25/04/2012

Required Date: 25/06/2012

Start Qty: 10.00

Required Qty: 10.00

1.2

D2856-400

Abrasion Strip

D2856-400

Manufactured

250

Loc Qty

216

335.5345

Loc Code

**

**

12

Purchased

No

81875 216 ST409 119.5345 63735 0.6696 68076 0.3149 71164 8.46 79551 110.09

> 250 3,434.000 Each

> > 880

1000

12/06/01

Location	Loc Qty	Loc Code
ST300	3434	
117441	16	
117885	32	
118451	5	
118927	3	
119017	1340	
119075	158	

April-25-12 10:13:02 AM

121349

121444

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W/O:			W	ORK ORDER CHANGES	S				•
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
NCR:		V	ORK ORD	ER NON-CONFORMAN	CE (NCF	R)		**	
DATE	STEP	Description of NC				Verification		Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng		Secti	on C		Approval QC Inspector
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ST300 5814 116188 119017 805 119075 121011 2000 121444 3000 NAS1149D0363J Purchased No 250 Each 0.0000

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Page 7

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W/O:		***************************************	WC	ORK ORDER CHANGE	S				•	
DATE	STEP	PR	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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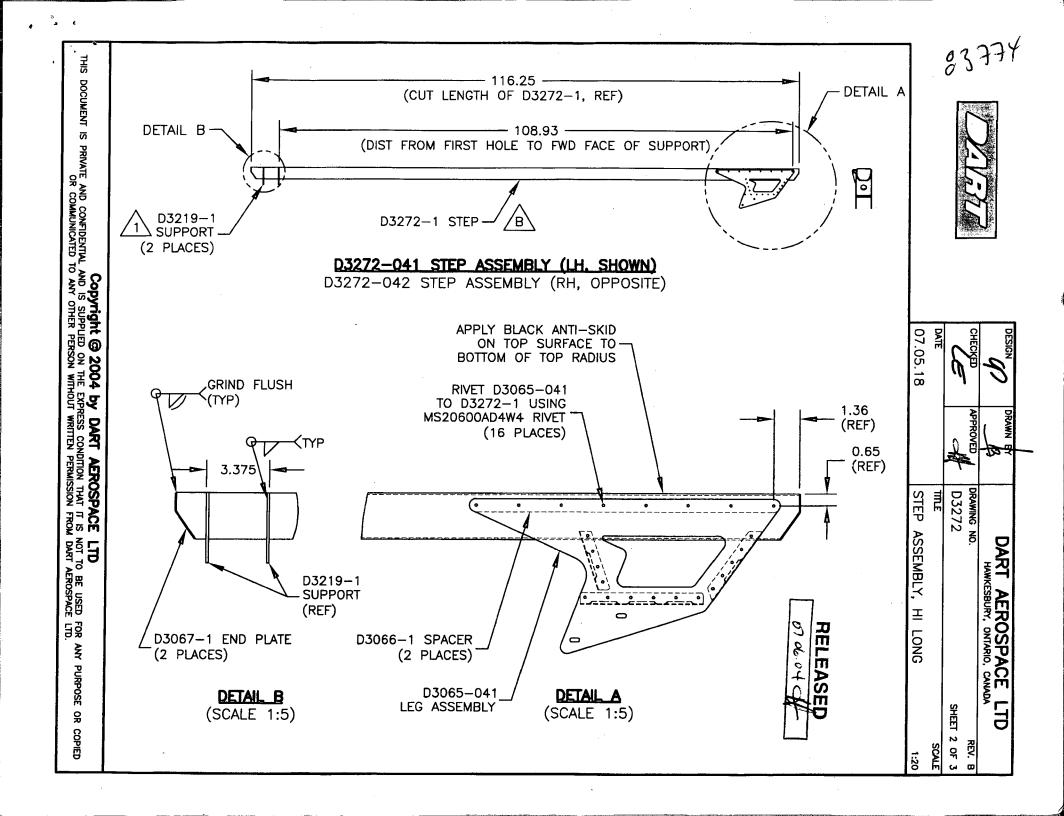
DESIG	P	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CANAD	
CHECK	SED	APPROVED	DRAWING NO.	REV. B.
		极	D3272	SHEET 1 OF 3
DATE			TITLE	SCALE
07.0	5.18		STEP ASSEMBLY, HI LONG	NTS
Α		04.03.01	NEW ISSUE	
В		07.05.18	D3272-1 WAS D2622-120	

QTY	QTY		
-041	-042	PART NUMBER	DESCRIPTION
X		D3272-041	STEP ASSEMBLY, HIGH LONG (LH)
	X	D3272-042	STEP ASSEMBLY, HIGH LONG (RH)
1	1	D3065-041	LEG ASSEMBLY
2	2	D3066-1	SPACER
2	2	D3067-1	END PLATE
_2	2	D3219-1	SUPPORT
1	1	D3272-1	STEP
16	16	MS20600AD4W4	RIVET

GENERAL NOTES:

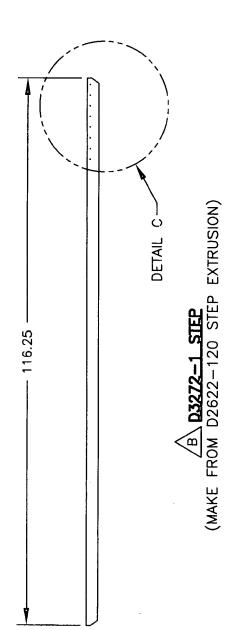
- 1) D3272-041 SHOWN. FOR D3272-042, INSTALL D3219-1 SUPPORT OPPOSITE SIDE
- WELD PER DART QSI 004
- FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005.4.1 POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3 BLACK ANTI-SKID PAINT PER DART QSI 005 4.4
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 5) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 6) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX.

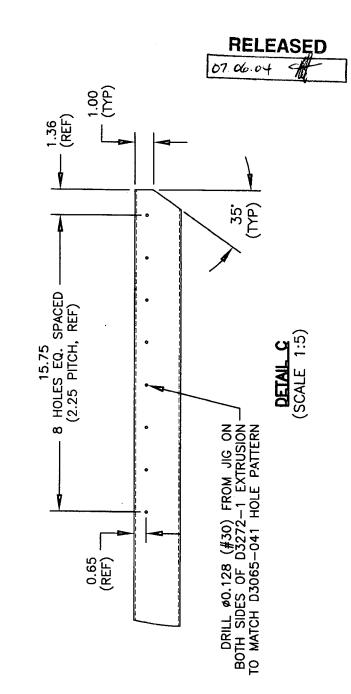
UNCONTROLLED COPY SUBJECT TO AMENDMENT ENGINEERING





DESIGN	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CAI	
CHECKED	APPROVED	DRAWING NO. D3272	REV. B SHEET 3 OF 3
DATE		TITLE	SCALE
07.05.18		STEP ASSEMBLY, HI LONG	1:20





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D350-591 Page 23 of 23

Qty	Qty-	Part Number	Description						
-211	-212	-213	-214	-215	-216	-311	4 -312	رسہ	·
Х								D350-591-211	Heli-Access-Step™, Long Step – High Skid, LH
	Х				,			D350-591-212	Heli-Access-Step™, Long Step – High Skid, RH
		Х					Ì	D350-591-213	Heli-Access-Step™, Short Step - High Skid, LH
			Х				1	D350-591-214	Heli-Access-Step™, Short Step – High Skid, RH
				X	-			D350-591-215	Heli-Access-Step™, Short Step – Low Skid, LH
					Х		1	D350-591-216	Heli-Access-Step™, Short Step - Low Skid, RH
						Х	† · · · · ·	D350-591-311	Heli-Access-Step™, Long Step – High Skid, LH
							Х	D350-591-312	Heli-Access-Step™, Long Step – High Skid, RH
								5000 001 012	
1								D3070-041	STEP ASSEMBLY (HIGH-LONG, LH)
	1							D3070-042	STEP ASSEMBLY (HIGH-LONG, RH)
		1						D3078-041	STEP ASSEMBLY (HIGH-SHORT, LH)
			1					D3078-042	STEP ASSEMBLY (HIGH-SHORT, RH)
				1				D3168-041	STEP ASSEMBLY (LOW-SHORT, LH)
					1			D3168-042	STEP ASSEMBLY (LOW-SHORT, RH)
						1		D3272-041	STEP ASSEMBLY (HIGH-LONG, LH)
							1	D3272-042	STEP ASSEMBLY (HIGH-LONG, RH)
4	4							D2182B035	RUBBER CUSHION
		2	2	2	2			D2230-1	MOUNTING LUG
Ţ		2	2	2	2	4	A	D2230-3	MOUNTING LUG
8	8	L						D2274	RADIUS BLOCK
						2	1/2	D2618	BUSHING
4	4	4	4	4	4		- The state of the	_D2732-030	CUSHION
2	2	1	1	1	1	2	1 2	D2856-400-720	ABRASION STRIP
2	2							D3064-1	CLAMP
1	1							D3079-041	SUPPORT ASSEMBLY
4	4							D3080-1	CLAMP
						2	2	D3235-1	MOUNTING LUG
						1	1	D3278-041	SUPPORT ASSEMBLY
							-		
2	2	2	2	2	2	2	1 2	AN3-35A	JBOLT
10	10	2	2	2	2			AN4-11A	BOLT
		4	4	4	4	8	8	AN4-13A	BOLT
						2	<u>~_2</u>	-AN5-36A	BOLT
4	4	4	4	4	4	4	14	AN960JD10	-WASHER
20	20	12	12	12	12	16	16	AN960JD416	WASHER
						4	€ 4	AN960JD516	WASHER
2	2	2	2	2	2	2	/ 2	MS21042L3	NUT
10	10	6	6	6	6	8	7 8	MS21042L4	NUT
						2	(2	MS21042L5	דטמי
		1			I .	1	1	*DSI 9410-011	STEP MODIFICATION KIT

^{*}DSI 9410-011 Step Modification Kits are provided with all D350-591-311 and D350-591-312 Steps. This kit is provided as an option for the installer and is therefore <u>NOT REQUIRED</u> to complete the installation of the D350-591-311 or D350-591-312 Steps. Refer to Figure 21 for installation of the DSI 9410-011 Kit.

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